

Semantic Web features in Bioclipse 2.2

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Published January 28, 2010

Citation

Willighagen, E. (2010). Semantic Web features in Bioclipse 2.2. In *chem-bla-ics*. chem-bla-ics. <https://doi.org/10.59350/6m8qd-xed40>

Keywords

Java, Bioclipse, Rdf, Sparql

Abstract

Ola is releasing Bioclipse 2.2.0 today, and asked me to show case the semantic web functionality in Bioclipse. I realized that I do not have a nice page showing the semantic web overview.

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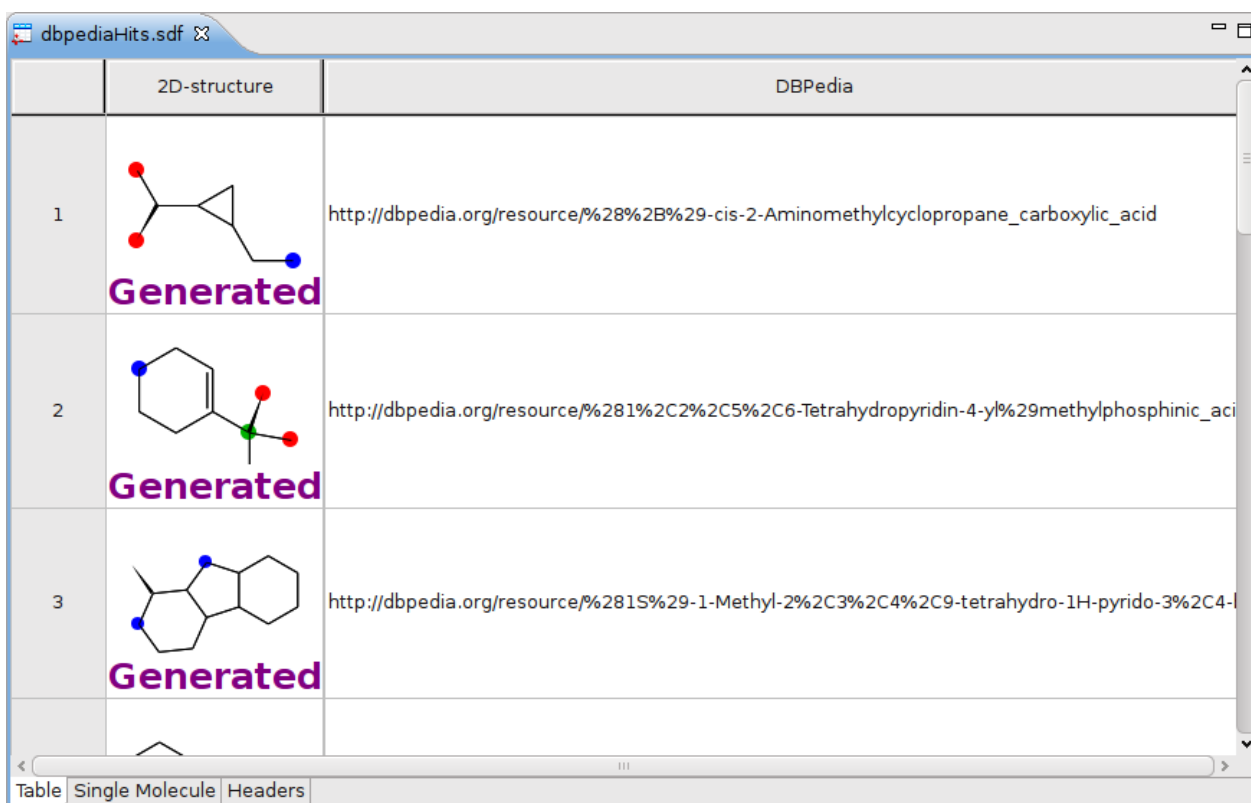
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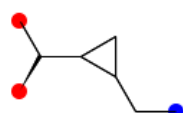
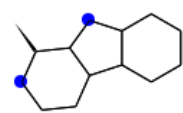
chem-bla-ics

Ola is releasing [Bioclipse 2.2.0](#) today, and asked me to show case the semantic web functionality in Bioclipse. I realized that I do not have a nice page showing the semantic web overview. But I did blog a lot about RDF functionality, so here's a list of pointers:

- [Bioclipse Manager for MyExperiment.org](#)
- [Bioclipse, RDF and defeasible reasoning](#) (see also [Samuel's blog](#))
- [Bioclipse and SPARQL end points #2: MyExperiment](#)
- [Bioclipse and SPARQL end points](#)
- [Solubility Data in Bioclipse #2: handling RDF](#)
- [Solubility Data in Bioclipse #3: Finding ChEBI IDs](#)
- [Solubility Data in Bioclipse #4: Finding ChEBI IDs \(Again, but better\)](#)
- [/me is having Bioclipse/XMPP/RDF fun](#)

Or check this screenshot from a [Posterous post](#) about a [MyExperiment workflow](#) :



| | 2D-structure | DBPedia |
|---|---|---|
| 1 |  Generated | http://dbpedia.org/resource/%28%2B%29-cis-2-Aminomethylcyclopropane_carboxylic_acid |
| 2 |  Generated | http://dbpedia.org/resource/%28%2C%2C%2C%2C6-Tetrahydropyridin-4-yl%29methylphosphinic_acid |
| 3 |  Generated | http://dbpedia.org/resource/%28%2C%2C%2C%2C9-tetrahydro-1H-pyrido-3%2C4-b%281%2C2%29pyridine |

One thing I have not blogged about yet (I think), is that the Bioclipse RDF manager also understands RDFa now. Well, sort of... it relies on a webservice, but this is what the script looks like:

```
model = rdf.createStore()
rdf.importRDFa(model, "http://egonw.github.com/")
rdf.saveRDFN3(model, "/Virtual/egonw.n3")
```

With support of SPARQL end points, and reading RDF from web resources directly (RDF/XML, N3, RDFa), Bioclipse is ready for the chemical semantic web.